

Message Text

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44

ORIGIN PM-07

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R 111321Z SEP 74

FM SECSTATE WASHDC

TO AMEMBASSY OSLO

INFO DOD

CNO

OCEANAV

COMNAVOCEANO

USCINCEUR

CINCUSNAVEUR

DMA

C O N F I D E N T I A L STATE 199166

E.O. 11652:GDS

TAGS: TGEN, MILI, NO

SUBJECT: GEODETIC SURVEY IN VICINITY OF THE OMEGA INSTALLATION AT ALDERSUNDET FJORD, NORWAY

1. THE NAVAL OCEANOGRAPHIC OFFICE HAS BEEN REQUESTED TO CONDUCT GEODETIC SURVEYS OF THE OMEGA INSTALLATION AT ALDERSUNDET FJORD FROM 23 SEPTEMBER TO 30 NOVEMBER 1974.

2. THE GEOCEIVER AND SATELLITE TRACKING EQUIPMENT WILL BE OPERATED WITHIN THE BOUNDARIES OF THE OMEGA INSTALLATION. HOWEVER, IN ORDER TO MAKE NECESSARY GEODETIC TIES, PER-
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MISSION TO CONDUCT CONVENTIONAL GEODETIC SURVEYS OUT TO A

10 MILE RADIUS FROM THE INSTALLATION IS DESIRED.

3. THE SURVEY IS NECESSARY TO PRECISELY DETERMINE THE POSITION OF THE ANTENNA AND MUST BE COMPLETED BEFORE THE ONSET OF THE NORWEGIAN WINTER IF DELAY OF THE OPERATIONAL EFFECTIVENESS OF THE OMEGA SYSTEM UNTIL THE SPRING IS TO BE AVOIDED. AT LEAST 30 DAYS WILL BE REQUIRED FOR THE CONDUCT OF THIS SURVEY IN ORDER TO OBTAIN THE ACCURACY REQUIRED, PLUS AN ADDITIONAL 14 DAYS FOR ONSITE MEASUREMENTS.

4. INSTRUMENTATION TO BE USED BY THE SURVEY TEAM (THREE CIVILIAN GEODESISTS, ALL US CITIZENS) CONSISTS PRIMARILY

OF A GEOCEIVER (PORTABLE SATELLITE TRACKING INSTRUMENT WHICH OBTAINS TIMING, DOPPLER, AND IONOSPHERIC REFRACTION DATA FROM ARTIFICIAL EARTH SATELLITES FOR THE COMPUTATION OF GEODETIC POSITIONS). THE OPERATION OF THE GEOCEIVER CONSISTS OF TRACKING THE FIVE NAVY NAVIGATION SATELLITES. FOR EACH SATELLITE, 5 TO 13 PASSES PER DAY ARE RECEIVABLE DEPENDING ON THE ALTITUDE OF THE OBSERVING POSITION. A CONVENTIONAL THEODOLITE AND APPROPRIATE EQUIPMENT WILL ALSO BE USED TO CONNECT THE GEOCEIVER POSITION TO THE EXISTING LOCAL GEODETIC CONTROL NETWORK. THE TOTAL APPROXIMATE WEIGHT OF EQUIPMENT IS 1000 POUNDS AND APPROXIMATE VOLUME IS 40 CUBIC FEET. THE LARGEST PIECE WEIGHS 63 POUNDS, VOLUME 4.7 CUBIC FEET.

5. REQUEST EMBASSY SEEK NORWEGIAN AUTHORIZATION FOR VISIT OF THREE US PERSONNEL AND EQUIPMENT DESCRIBED ABOVE TO CONDUCT GEODETIC SURVEY. IF THE SURVEY IS APPROVED, EMBASSY'S ASSISTANCE IS ALSO REQUESTED IN OBTAINING THE FOLLOWING LOCAL SUPPORT:

- (A) QUARTERS AND MESSING ON SITE FOR 3 PERSONS;
 - (B) 110V - 230V AC, 50-60 HZ POWER SUPPLY;
 - (C) TRANSPORTATION TO SITE FOR EQUIPMENT AND PERSONNEL MENTIONED ABOVE BY HELICOPTER OR VEHICLE AS CONSIDERED APPROPRIATE;
 - (D) DAILY WEATHER BRIEFING;
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- (E) SMALL AMOUNT OF GASOLINE FOR SMALL PORTABLE BACK-UP GENERATORS;
- (F) COMMUNICATIONS LINK WITH US NAVY CIRCUITS IF POSSIBLE. KISSINGER

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